

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director



Mayor Timothy M. Keller

October 17, 2022

Scott A. Eddings, PE
HUITT-ZOLLARS, INC.
333 Rio Rancho Dr. NE Suite 101
Rancho, NM 87124

**RE: ABQ ZOO HIPPO POOL
903 10TH ST SW ALBUQUERQUE NM 87102
Grading and Drainage Plan
Engineer's Stamp Date: 6/10/2022
Hydrology File: K13D034K**

PO Box 1293

Dear Mr. Eddings:

Albuquerque

Based upon the information provided in your submittal, the Grading & Drainage Plan is approved for Building Permit.

NM 87103

PRIOR TO CERTIFICATE OF OCCUPANCY:

1. Engineer's Certification, per the DPM Part 6-14 (F): *Engineer's Certification Checklist For Non-Subdivision* is required.

www.cabq.gov

If you have any questions, please contact me at 924-3999 or sbiazar@cabq.gov.

Sincerely,

Shahab Biazar, P.E. CFM
City Engineer
Development Review Services
Planning Department



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 11/2018)

Project Title: _____ **Building Permit #:** _____ **Hydrology File #:** _____

DRB#: _____ **EPC#:** _____ **Work Order#:** _____

Legal Description: _____

City Address: _____

Applicant: _____ **Contact:** _____

Address: _____

Phone#: _____ **Fax#:** _____ **E-mail:** _____

Owner: _____ **Contact:** _____

Address: _____

Phone#: _____ **Fax#:** _____ **E-mail:** _____

TYPE OF SUBMITTAL: _____ PLAT (____# OF LOTS) _____ RESIDENCE _____ DRB SITE _____ ADMIN SITE

IS THIS A RESUBMITTAL?: _____ Yes _____ No

DEPARTMENT: _____ TRAFFIC/ TRANSPORTATION _____ HYDROLOGY/ DRAINAGE

Check all that Apply:

TYPE OF SUBMITTAL:

- _____ ENGINEER/ARCHITECT CERTIFICATION
- _____ PAD CERTIFICATION
- _____ CONCEPTUAL G & D PLAN
- _____ GRADING PLAN
- _____ DRAINAGE MASTER PLAN
- _____ DRAINAGE REPORT
- _____ FLOODPLAIN DEVELOPMENT PERMIT APPLIC
- _____ ELEVATION CERTIFICATE
- _____ CLOMR/LOMR
- _____ TRAFFIC CIRCULATION LAYOUT (TCL)
- _____ TRAFFIC IMPACT STUDY (TIS)
- _____ OTHER (SPECIFY) _____
- _____ PRE-DESIGN MEETING?

TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

- _____ BUILDING PERMIT APPROVAL
- _____ CERTIFICATE OF OCCUPANCY
- _____ PRELIMINARY PLAT APPROVAL
- _____ SITE PLAN FOR SUB'D APPROVAL
- _____ SITE PLAN FOR BLDG. PERMIT APPROVAL
- _____ FINAL PLAT APPROVAL
- _____ SIA/ RELEASE OF FINANCIAL GUARANTEE
- _____ FOUNDATION PERMIT APPROVAL
- _____ GRADING PERMIT APPROVAL
- _____ SO-19 APPROVAL
- _____ PAVING PERMIT APPROVAL
- _____ GRADING/ PAD CERTIFICATION
- _____ WORK ORDER APPROVAL
- _____ CLOMR/LOMR
- _____ FLOODPLAIN DEVELOPMENT PERMIT
- _____ OTHER (SPECIFY) _____

DATE SUBMITTED: _____ **By:** _____

COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: _____

FEE PAID: _____

PROPERTY

THIS SITE IS A CITY OF ALBUQUERQUE ZOO (ZONE MAP K-13). THE SITE IS SOUTH OF STOVER STREET.

FLOOD ZONE

PER THE FEMA MAP NUMBER 35001C0333H DATED AUGUST 16, 2012
SHOWS THE SITE IS LOCATED WITHIN FLOOD HAZARD ZONE X.

PROPOSED IMPROVEMENTS

THIS PROJECT INCLUDES CONSTRUCTION OF A CONCRETE HIPPO POOL AND PROVIDING WATER & SEWER UTILITY SERVICES FOR THE HIPPO POOL.

PROPOSED DRAINAGE CONDIITIONS

PROJECT IMPROVEMENTS MAINTAIN DRAINAGE PATTERNS AND FLOWS.

BENCHMARK

THE STATION IS LOCATED 1 MILE SOUTHWEST OF DOWNTOWN ALBUQUERQUE.

TO REACH THE STATION FROM THE INTERSECTION OF CENTRAL AVENUE AND TINGLEY DRIVE SW TRAVEL SOUTH ON TINGLEY DRIVE 1 MILE TO ALCALDE PLACE. THE STATION IS LOCATED IN THE NORTHEAST QUADRANT OF THE INTERSECTION.

THE STATION IS A 3 INCH BWH BRASS DISC SET IN CONCRETE FLUSH WITH THE GROUND, STAMPED "6-K13 1976". ELEVATION= 4959.62



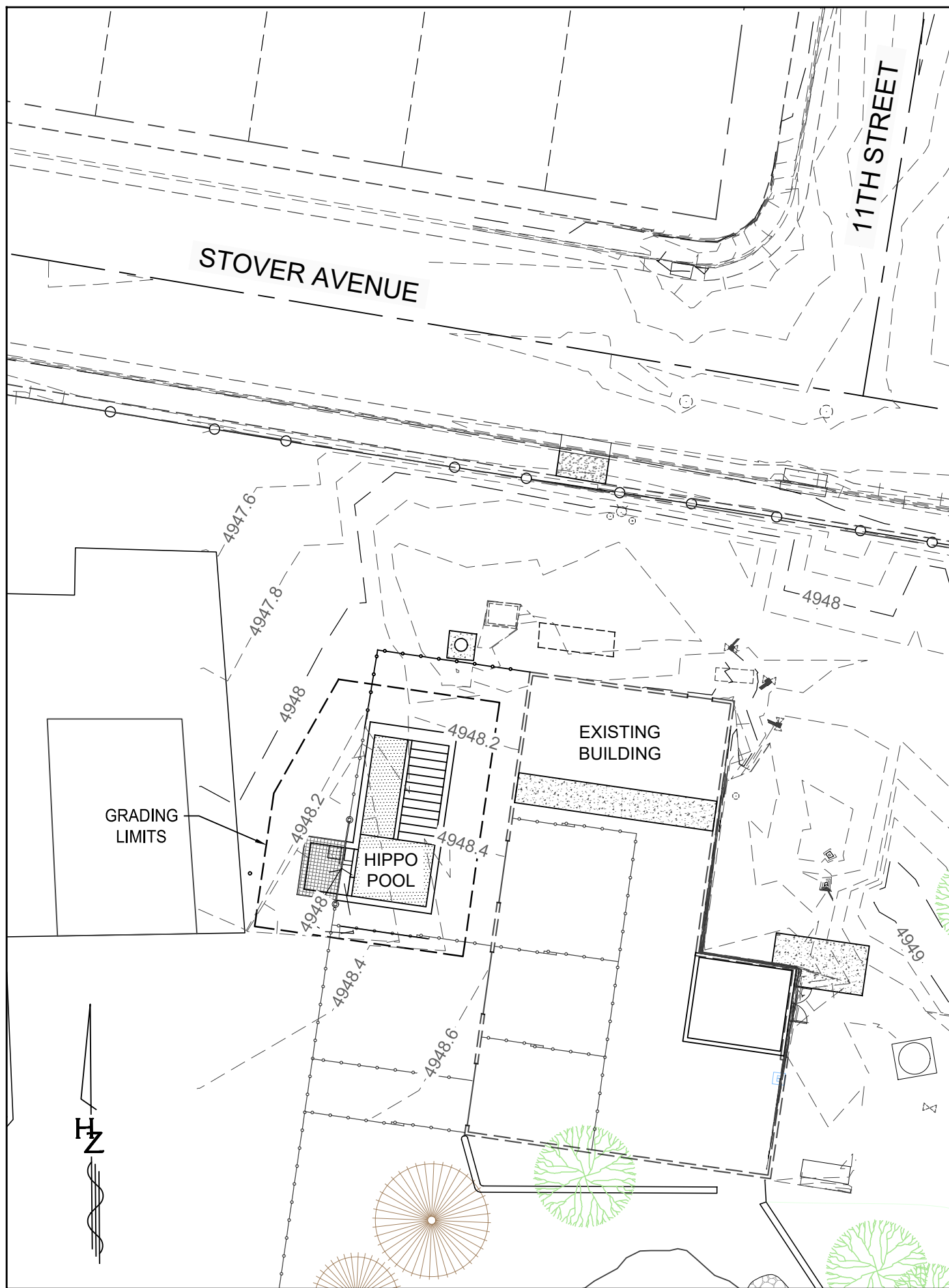
ZONE ATLAS K-13-Z



HYDROLOGY

BASIN 100	AREA =	0.03 ac.
NOAA Atlas 14	35.0795	
Latitude	-106.6613	
Longitude		
PRECIPITATION:	360 = 2.3 in.	
	1440 = 3.21 in.	
	10day = 4.33 in.	
EXCESS PRECIPITATION:	PEAK DISCHARGE:	
TREATMENT A	0.62 in.	1.56 cfs/ac.
TREATMENT B	0.8 in.	2.28 cfs/ac.
TREATMENT C	1.03 in.	3.14 cfs/ac.
TREATMENT D	2.33 in.	4.70 cfs/ac.
EXISTING CONDITIONS:	PROPOSED CONDITIONS:	
AREA	AREA	
TREATMENT A	0 ac.	0 ac.
TREATMENT B	0 ac.	0 ac.
TREATMENT C	0.03 ac.	0 ac.
TREATMENT D	0 ac.	0.015 ac.
EXISTING EXCESS PRECIPITATION:		
Weighted E =	(0.62 x(0.00)+(0.80 x(0.00)+(1.03 x(0.03)+(2.33 x(0.00)/	0.03 ac.
= 1.03 in.		
V100-360 =	(1.03 x(0.03)/ 12 = 0.002573 ac-ft =	112 cf
EXISTING PEAK DISCHARGE:		
Q100 =	(1.56 x(0.00)+(2.28 x(0.00)+(3.14 x(0.03)+(4.70 x(0.00)=	0.09 cfs
PROPOSED EXCESS PRECIPITATION:		
Weighted E =	(0.62 x(0.00)+(0.80 x(0.00)+(1.03 x(0.00)+(2.33 x(0.02)/	0.03 ac.
= 1.17 in.		
V100-360 =	(1.17 x(0.03)/ 12.0 = 0.002913 ac-ft =	127 cf
V100-1440 =	(0.00)+(0.02 x(3.21 - 2.30)/ 12 = 0.004050 ac-ft =	176 cf
V100-10day =	(0.00)+(0.02 x(4.33 - 2.30)/ 12 = 0.005450 ac-ft =	237 cf
PROPOSED PEAK DISCHARGE:		
Q100 =	(1.56 x(0.00)+(2.28 x(0.00)+(3.14 x(0.00)+(4.70 x(0.02)=	0.07 cfs
RESULTS		
0.07 - 0.09 = -0.02 cfs	Increase in peak discharge	
127 - 112 = 15 cf	Ponding Requirement	

*Hippo Pool water surface elevation is 4 inches below adjacent concrete. Water surface will not release storm water, which is why the developed conditions are less than the existing conditions area.



Site plan for the Hippo Pool Bottom. The plan shows a rectangular pool area with a bottom elevation of 4943.10' and a surrounding area with a bottom elevation of 4939.10'. The pool is divided into sections with elevations 4949 and 4945. The plan includes grading limits, existing building, and various elevation points (EG, TC) and slopes (S=2.0%).

LEGEND

---	GRADING LIMITS
TC XX.X	TOP OF CONCRETE ELEV
EG XX.X	EXISTING GROUND ELEV
—5050—	EXISTING (INDEX) CONTOUR
- - -5051- - -	EXISTING (INTERMEDIATE) CONTOUR
—5040—	PROPOSED (INDEX) CONTOUR
- - -5041- - -	PROPOSED (INTERMEDIATE) CONTOUR



Designed By:

HUITT-ZOLLARS

Huitt-Zollars, Inc. Albuquerque
6501 Americas Pkwy NE, Suite 550
Albuquerque, New Mexico 87110
Phone (505) 883-8114 Fax (505) 883-5022


CITY OF ALBUQUERQUE
 ABQ ZOO HIPPO POOL

GRADING PLAN

Design Review Committee	City Engineer	Last Update	Mo./Day/Yr.	Mo./Day/Yr.
City Project No. 593395	Zone Map No. K-13-Z	Sheet 29	Of 29	

SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
NO.	FIELD NOTES		FOUND MONUMENT	CONTRACTOR	DATE
	BY	DATE			
			3" BWH BRASS DISC SET IN CONCRETE	WORK INSPECTED BY	DATE
			NEW MEXICO STATE PLANE COORDINATES (CENTRAL ZONE-N.A.D. 1983)	ACCEPTANCE BY	DATE
			N=1,485,023.666	FIELD VERIFICATION BY	DATE
			E=1,515,142.266	DRAWINGS CORRECTED BY	DATE
			ELEV=499.622 (NAVD 1983)	MICRO-FILM INFORMATION	
			GROUND TO GRID FACTOR=0.99984647	RECORDED BY	DATE
			MAPPING ANGLE= -0°14'25.38"	NO	

ENGINEER'S SEAL

SCOTT A. EDDINGS
NEW MEXICO
REGISTERED PROFESSIONAL ENGINEER
12856

Scott Eddings

6/10/22

[illegible]



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Your request for payment has been received.

An additional confirmation will be sent to your email account if it was provided with the payment.

Your Reference Number: **2022174006-26**

06/24/2022 12:04:06 PM

Total Amount:	\$324.90
Building Permits, Business Registrations, Code Enforcement Permits and Planning Applications 2022174006-26-1 NAME: HUITT-ZOLLARS, INC. SCOTT EDDINGS - CU127987552 CUSTOMER NUMBER: CU127987552	\$316.20
Permit Information PERMIT NUMBER: SI-2022-01232 PERMIT DESCRIPTION: DRS010: Planning: Hydrology Review (Site Improvement Plan) NAME: HUITT-ZOLLARS, INC. SCOTT EDDINGS - CU127987552	\$310.00
Permit Information PERMIT NUMBER: SI-2022-01232 PERMIT DESCRIPTION: TF001: Planning: Technology Fee Application (Site Improvement Plan) NAME: HUITT-ZOLLARS, INC. SCOTT EDDINGS - CU127987552	\$6.20
American Express Service Fee 2022174006-26-4	\$8.70
American Express Credit Sale M CARD NUMBER: *****1008 LAST NAME: Eddings	\$316.20
American Express Service Fee Credit Sale M CARD NUMBER: *****1008 LAST NAME: Eddings	\$8.70

Total Amount:

\$324.90



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